

$$x''_{jk} + 2 \gamma x_{jk} + \Omega^2 x_{jk} = -w_0 \sqrt{2D} \xi_{jk} \quad (18)$$

[0216] The computing power of the UCS of the present invention is substantially greater than can be implemented with a digital computer. In contrast to existing controllers (mostly based on digital computing systems) the UCS of the present invention does not operate numerically but rather works by internally emulating a large set of possible solutions to a given task. Given N parameters to be controlled, the UCS would include at least the same number of processing units; i.e., ~~an~~ a processing unit is provided for each parameter.